Subject Index

A

Acoustic priming 217
Activation 1
Adenylate cyclase 45
Affective Disorders 19, 305
Aggressive behavior 135
Aggressiveness 191
Alcohol 223
— intoxication 165
Alpha-receptors 283
Amnesia 269
Amobarbital 243
Amphetamine 1, 83, 97, 115, 175, 211, 227, 236
d-Amphetamine 151, 185, 263
l-Amphetamine 185
p-chloro-Amphetamine 175
Analeptic drugs 205
Analgesia 65, 295
Anisomycin 147
Anticonvulsion 121
Antipsychotic drugs 283
Apomorphine 45, 55, 65, 89
— esters 45
Attentional mechanisms 249
Autoradiography 33
Avoidance behavior 213
— conditioning 259

B

Baboons 79
BC 105, 159
Behavior 103
— aggressive 135, 191
— avoidance 213
— maternal 83
— social 79
— stereotyped 45, 175
— turning 211
Behavioral effects 55
Benzodiazepines 105, 121
Beta-endorphin 295
Binding 255
Biogenic amines 269, 309
Bourbon 201
Brain Peptides 205
Brain sites of action 33

C

Cannabis sativa 79
Catecholamines 211
Central nervous system 165
Cerebrospinal fluid 315
Chloramphenicol 147
p-Chloroamphetamine 175
p-Chlorophenylalanine 159
Chlorpromazine 13, 27, 83, 249
— nitrogenoxide 13
Choice 277
Cinanserin 159
Classical conditioning 236
Clonidine 283
Cocaine 277
Conditioned reinforcement 223
Consolidation 27, 299
Copulatory behavior 175
Corpus striatum 211
Cortex 73
Cross-generational effects 259

D

DDC 213
Depression 309
N-Desmethyldiazepam 105
Development 211
Diethyldithiocarbamate 213
Dimethylated-chlorpromazine 13
Di-*n*-propylacetate 255
Diphenylhydantoin 259
Dipotassium chlorazepate 105
Discrimination index 169
Discrimination learning 243
Disruptive agents 299
Dogs 115, 315
L-Dopa 269
Dopamine 45, 115, 309
— receptors 89
— receptor blocker 236
Dopaminergic mechanisms 55
— receptors 65
Dose-response effects 207, 259
Drug discrimination 39, 97, 159, 169, 195
— effects 259
— self-injection 277
D-sleep (desynchronized) 131
Dyskinesia 289

E

EEG 73
Endogenous opioid peptides 111
Endorphins 111
Erythrocytes 19
Ethanol 159, 195, 201, 223
Evoked potentials 73

F

Fenfluramine 97, 175
Fentanyl 169
Fixed-ratio responding 97
Flurazepam 243

G

GABA 217, 255
Gas chromatography 127
Gerbils 39
Goldfish 201

H

Haloperidol 115, 169, 289
Head twitches 121
Homovanillic acid 13
Hot-plate behavior 111
d,l,5-HTP 269
Human subjects 1, 19, 105, 127, 131, 165, 185, 295, 305
7-Hydroxy-chlorpromazine 13
5-Hydroxyindoleacetic acid 305
Hypothermia 89

I

Imipramine 27
Inbred mice 27
Individual differences 79
Insomnia 131
Intragastric self-administration 223
Intracranial self-stimulation 283
Isolation 191

L

Learning 27
— tasks 299
Lithium 103
Li^+ distribution between red cells and plasma 19
Li^+ transport 19
Locomotor activity 79

M

Magnitude of reinforcement 277
Marihuana 135
Maternal behavior 83
Melanocyte 205
Memory 269
Methylphenidate 1
α-Methyl-p-tyrosine 211
Mescaline 121
Mice 27, 45, 55, 65, 111, 121, 191, 217, 263, 269
Miosis 115
Monkeys 205, 249, 277, 289
Mood 1
Morphine 55, 65, 159, 191, 227,
— precipitated withdrawal 33
Motor activity 205
Movement disorders 289
Muscle relaxation 121
Mydriasis 115

N

Na^+-dependent Li^+ countertransport system 19
Naloxone 111, 295
^{3}H-Naloxone 33
Narcotic analgesics 227
Narcotic cue 169

Nicitating membrane 115
Norfenfluramine 97
Nystagmus 165

O

Open-field behaviors 207, 263
Opiate antagonists 111
Orotic acid 73

P

Papio 79
Pecking 89
Penicilline G 147
Pentobarbital 39, 151, 195
Perphenazine 127
— sulphoxide 127
Pharmacokinetics 45, 105
Phenobarbital 195
Phenoxybenzamine 115, 283
Pigeons 89, 151
Pimozide 115, 236
Pirazetam 73
Plasma concentrations 127
Primate visual discrimination 249
Probenecid 305, 315
Prolactin 13
Psychosis 295
Psychotic symptoms 295
PTP 73
Punishment 151, 277
Pupils 115

R

Rabbits 73, 315
Radioimmunoassay 315
Rats 13, 33, 55, 65, 83, 97, 135, 147, 159, 169, 175, 191, 195, 207, 211, 213, 223, 227, 236, 243, 255, 259, 283, 299, 309
Recombinant inbred strains 263
Recovery of memory 299
Reinforcement 151
REM deprivation 135
REM sleep 147
Reserpine 269
Retention 213
Reticular formation 249
Retrieval block 299
Retrograde amnesia 299

S

Schizophrenia 295
Self-stimulation 227
Serotonin 55, 121
Sleep 131
— deprivation 185
— latency 131
— wake cycle 147
Social behavior 79
Sodium pentobarbital 249
Spinal reflexes 283
State-dependent learning 195
Steady state 127
Stereotyped behavior 45, 175
Stimulus properties of drugs 97
Suspension of continued treatment 243
Synaptosomal fraction 255

T

Tachistoscopic discrimination 249
Task differences 213
Taste aversion 236
Taurine 207
Telemetry 205
Δ^9-THC 135
Thymoleptics 309
Thyrotropin 205
Tolerance 39, 201, 227
L-Tryptophan 131, 305
Turning behavior 211

U

Uptake inhibition 309

V

Vigilance 185
Vincristine 147

Carlsberg Research Communications

Editorial Board: H. Holter · H. Klenow · E. Lund

Subscription Information
Volume 42 (6 issues) will appear in 1977. Sample copies available upon request.

North America
1977. US $44.80, including postage and handling. Subscriptions are entered with prepayment only.
Send your order or request to your bookseller or to:
Springer-Verlag New York Inc.,
175 Fifth Avenue
New York, NY 10010

All countries (except North America)
1977: DM 100,–, plus postage and handling. Send your order or request to your bookseller or to:
Springer-Verlag
P.B. 10 52 80
D-6900 Heidelberg 1

Heinz Holter, Hans Klenow, Ebba Lund, editors
Martin Ottesen, Diter von Wettstein, Carlsberg Laboratory
Erik Zeuthen, Biological Institute of the Carlsberg Foundation

Carlsberg Research Communications are the continuation of Comptes Rendus des Travaux du Laboratoire Carlsberg which has been published since 1878. The previous volumes of the journal contain the results of the work carried out at the scientific institutions of the Carlsberg Foundation. Through this journal were made known e.g. Kjeldahl's method for nitrogen determination, S.P.L. Sørensen's concept of pH, Schmidt's discovery of eel migration, Winge's discovery of sexuality in yeast, and Linderstrøm-Lang's concepts of protein structure and enzyme function.

Also in the future, the Carlsberg Research Communications will inform comprehensively about the scientific work of the Carlsberg research establishments. These include the Departments of Chemistry and Physiology of the Carlsberg Foundation, the Departments of Brewing Chemistry, Biotechnology and Technology of the Carlsberg Research Laboratory. In keeping with established tradition, these laboratories are involved in fundamental and applied research in the fields of biochemistry, cell and molecular biology, genetics, microbiology, plant and animal physiology.

Contents of Volume 41, Number 1-3

J. T. Johansen, K. Breddam, M. Ottesen: Isolation of Carboxypeptidase Y by Affinity Chromatography

Birthe Kramhøft, Susanne B. Nissen, Erik Zeuthen: The Cell Cycle in Heat- and Selection-Synchronized Schizosaccharomyces Pombe

Robert M. Smillie, Knud W. Henningsen, Niels C. Nielsen, Diter von Wettstein: The Influence of Cations and Methylamine on Structure and Function of Thylakoid Membranes from Barley Chloroplasts

Steffen Strøbæk, Gregory C. Gibbons: Ribulose-1,5-Diphosphate Carboxylase from Barley (Hordeum Vulgare). Isolation, Characterization, and Peptide Mapping Studies of the Subunits

Jack T. Johansen: Isolation of Human Carbonic Anhydrase B and C and Apocarbonic Anhydrase by Affinity Chromatography

Leif Rasmussen, Eduardo Orias: Dual Capacity for Nutrient Uptake in Tetrahymena Importance of the Oral Uptake System for FE and CU Uptake

Finn Schmidt, Bent Stig Enevoldsen: Gel Filtration Chromatography of Oligosaccharides. Comparative Studies of a-1,4, a-1,6 and a-1,4:a-1,6 Linked Oligosaccharides Composed of Glucose

Ib Svendsen: Buoyant Titration of Bovine Mercaptalbumine Chemically Modified at the Carboxyl Groups

Kaye Brock, C. Gamani Kannangara: Properties and Morphology of Barley Embryo Acetyl CoA Carboxylase

Ib Svendsen: The Hydrolysis of the Three Clupein Components by Subtilisin Novo, Subtilisin Carlsberg and Nitrated Subtilisin Carlsberg

Leif Rasmussen: Nutrient Uptake in Tetrahymena Priformis

Published by
The Carlsberg Laboratory, Copenhagen
Distributed by
Springer-Verlag
Berlin Heidelberg New York

5001 4.1

EUROPE: Now you can search ISI® data ON-LINE through ESA-SDS

You now can have immediate access via the ESA-SDS computer to 1,300 of the world's most important physics, chemistry and engineering journals—the same journals covered in the *Science Citation Index®*, *CC®/Physical & Chemical Sciences* and *CC/Engineering, Technology & Applied Sciences*.

Whether you're interested in—

- current awareness
- selective dissemination of information
- retrospective searching as far back as 1972

—the ESA-SDS computer will search the ISI data, find the information you want and deliver it *fast*.

All you need for this quick, on-line searching is a teletype or video-display terminal. You dial a number and are linked to the ESA-SDS central computer in Frascati, Italy.

ESA-SDS may be accessed by direct line with Frascati or by dialing through the PTT network to London, Brussels, Paris, Copenhagen, Darmstadt, or Rome. You can also dial via PTT lines to TYMESHARE in Brussels, Paris, Lausanne, London, or The Hague.

Find out more about how ISI data and ESA-SDS can make your literature searches faster, easier and more effective than ever before.

Mail the coupon below. Or contact David Raitt at the Space Documentation Service, ESA-SDS, Via Galilei, 00044 Frascati (Roma), Italy. Tel.: (Rome) 94 22 401; Telex: 61637 ESRINROM. Do it today.

☐ EUROPE ☐ EUROPE ☐ EUROPE ☐ EUROPE ☐

EUROPE ☐ EUROPE ☐ EUROPE ☐ EUROPE ☐ EUROPE ☐

I would like to learn more about the ISI® data base accessible through ESA-SDS.

Name_____
(Please print or type)

Organization _____

Position _____

Address _____

_____

Country _____

Telephone _____

SP-487

ISI® Institute for Scientific Information®
European Office
132 High Street, Uxbridge, Middlesex, U.K.
Tel: Uxbridge 30085. Telex: 933693